

Product datasheet for **RC234717**

ACSS1 (NM_001252675) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSS1 (NM_001252675) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSS1
Synonyms:	ACAS2L; ACECS1; AceCS2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC234717 representing NM_001252675
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCGCACCCCTGGGCCGCGCGTGGGAGGCTGCTGGGCAGCCTGCGAGGGCTCTCGGGGCAGC
 CCGCGCGGCCCGCTGCGGGGTGAGCGCGCCGCGCAGGGCGGCCCTCGGGACCCTCGGGCAGCGCTCCCGC
 AGTTGCAGCAGCAGCAGCACAGCCAGGCTCGTATCCCGCGCTGAGTGCACAGGCAGCCCGGAGCCGGCC
 GCCTTCTGGGGCCTCTGGCGCGGGACACTCTCGTGTGGGACACCCCTACCACACCGTCTGGGACTGCG
 ACTTCAGCACTGGCAAGATCGGCTGGTTCTGGGAGGCCAGTTAAATGTCTCTGTCAACTGCTTGGACCA
 GCATGTTCCGAAGTCCCCGAGAGCGTTGCTTTGATCTGGGAGCGCGATGAGCCTGGAACGGAAGTGAGG
 ATCACCTACAGGGAAGTACTGGAGACCAGTGCCCGCTGGCCAACACGCTGAAGAGGCATGGAGTCCACC
 GTGGGGACCGTGTGCCATCTACATGCCCGTGTCCCATTTGGCTGTGGCAGCAATGCTGGCCTGTGCCAG
 GATCGGAGCTGTCCACACAGTCATCTTTGCTGGCTTCAGTGCAGAGTCCTTGGCTGGGAGGATCAATGAT
 GCCAAGTGCAAGGTGTTATCACCTTCAACCAAGGACTCCGGGGTGGGCGCGTGGTGGAGCTGAAGAAAA
 TAGTGGATGAGGCTGTGAAGCACTGCCCCACCGTGCAGCATGTCCTGGTGGCTCACAGGACAGACAA
 GGTCCACATGGGGGATCTGGACGTCCCGCTGGAGCAGGAAATGGCCAAGGAGGACCCTGTTTGCGCCCA
 GAGAGCATGGGCAGTGAGGACATGCTCTTCATGCTGTACACCTCAGGGAGCACCGGAATGCCAAGGGCA
 TCGTCCATACCCAGGCAGGCTACCTGCTCTATGCCGCCCTGACTCACAAGCTTGTGTTTGACCACCAGCC
 AGGTGACATCTTTGGCTGTGTGGCCGACATCGGTTGGATTACAGGACACAGCTACGTGGTGTATGGCCCT
 CTCTGCAATGGTCCACCAGCGTCTTTTTGAGAGCACCCAGTTTATCCAATGCTGGTGGTACTGGG
 AGACAGTAGAGAGGTTGAAGATCAATCAGTTCTATGGCGCCCAACGGCTGTCCGGCTGTTGCTGAAATA
 CGGTGATGCCTGGGTGAAGAAGTATGATCGCTCCTCCCTGCGGACCCTGGGGTCACTGGGAGAGCCCATC
 AACTGTGAGGCCTGGGAGTGGCTTACAGGGTGGTGGGGACAGCAGGTGCACGCTGGTGGACACCTGGT
 GGCAGACAGGTGGCATCTGCATCGCACCACGGCCCTCGGAAGAAGGGGCGGAAATCCTCCCTGCCATGGC
 GATGAGGCCCTTCTTTGGCATCGTCCCGTCTCATGGATGAGAAGGGCAGCGTGGTGGAGGGCAGCAAC
 GTCTCCGGGGCCCTGTGCATCTCCAGGCCTGGCCGGCATGGCCAGGACCATCTATGGCGACCACCAGC
 GATTTGTGGACGCTACTTCAAGGCCTACCCAGGCTATTACTTCACTGGAGACGGGGCTTACCGAAGTGA
 GGGCGGCTATTACCAGATCACAGGGCGGATGGATGATGTCATCAACATCAGTGGCCACCGGCTGGGGACC
 GCAGAGATTGAGGACGCCATCGCCGACCACCTGCAGTACCAGAAAGTGTGTCATTGGCTACCCCCACG
 ACATCAAAGGAGAAGCTGCCTTTGCCTTATTGTGGTAAAAGATAGTGGGGTACTCAGATGTGGTGGT
 GCAGGAGCTCAAGTCCATGGTGGCCACCAAGATCGCCAAATATGCTGTGCCTGATGAGATCCTGGTGGT
 AAACGTCTTCAAAAACAGGTCTGGGAAGTCAATGCGGCGGCTCCTGAGGAAGATCATCTAGTGGG
 CCCAGGAGCTGGGAGACACTACCACCTTGGAGGACCCAGCATCATCGCAGAGATCCTGAGTGTCTACCA
 GAAGTGAAGGACAAGCAGGCTGCTGCTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234717 representing NM_001252675
Red=Cloning site Green=Tags(s)

MAARTLGRGVGRLLGSLRGLSGQPAPPPCGVSAPRRAASGPSGSAPAVAAAAAQPGRSYPALSAQAAREPA
 AFWGPLARDTLVWDTPTYHTVWDCDFSTGKIGWFLGGQLNVSVNCLDQHVRKSPESVALIWERDEPGTEVR
 ITYRELLETTCLRLANTLKRHGVRGRDRVAIYMPVSPPLAVAAAMLACARIGAVHTVIFAGFSAESLAGRIND
 AKCKVVITFNQGLRGRVVELKKIVDEAVKHCPVQHVLAHRTDNKVMGDLDPLEQEMAKEDPVCAP
 ESMGSEDMLFMLYTSGSTGMPKGI VHTQAGYLLYAALTKLVFDHQPGLDFGCVADIGWITGHSYVYGP
 LCNGATS VLFESTPVYPNAGRYWETVERLKNQFYGAPTAVRLLLKYGDAWVKKYDRSSLRTLGSVGEPI
 NCEAWEWLHRVVGDSRCTLVDTWWQTGGICIAAPRSEEGAEILPAMAMRPFPGIVPVLMEKSGSVVEGSN
 VSGALCISQAWPGMARTIYGDHQRFDVAYFKAYPGYYFTGDGAYRTEGGYYQITGRMDDVINISGHLRGT
 AEIEDAIADHPAVPE SAVIGYPHDIKGEAAFIVVKDSAGSDVVVQELKSMVATKIAKYAVPDEILVV
 KRLPKTRSGKVMRRLLRKIITSEAQELGDTTTLLEDPSSIIAEILSVYQCKDKQAAAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001252675

ORF Size: 2061 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001252675.1](#), [NP_001239604.1](#)

RefSeq Size: 3686 bp

RefSeq ORF: 2064 bp

Locus ID: 84532

UniProt ID: [Q9NUB1](#)

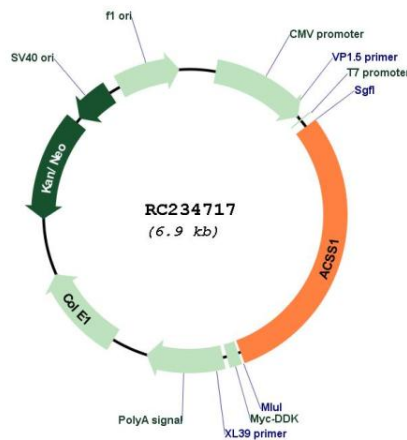
Cytogenetics: 20p11.21

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

MW: 75.1 kDa

Gene Summary: This gene encodes a mitochondrial acetyl-CoA synthetase enzyme. A similar protein in mice plays an important role in the tricarboxylic acid cycle by catalyzing the conversion of acetate to acetyl CoA. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC234717